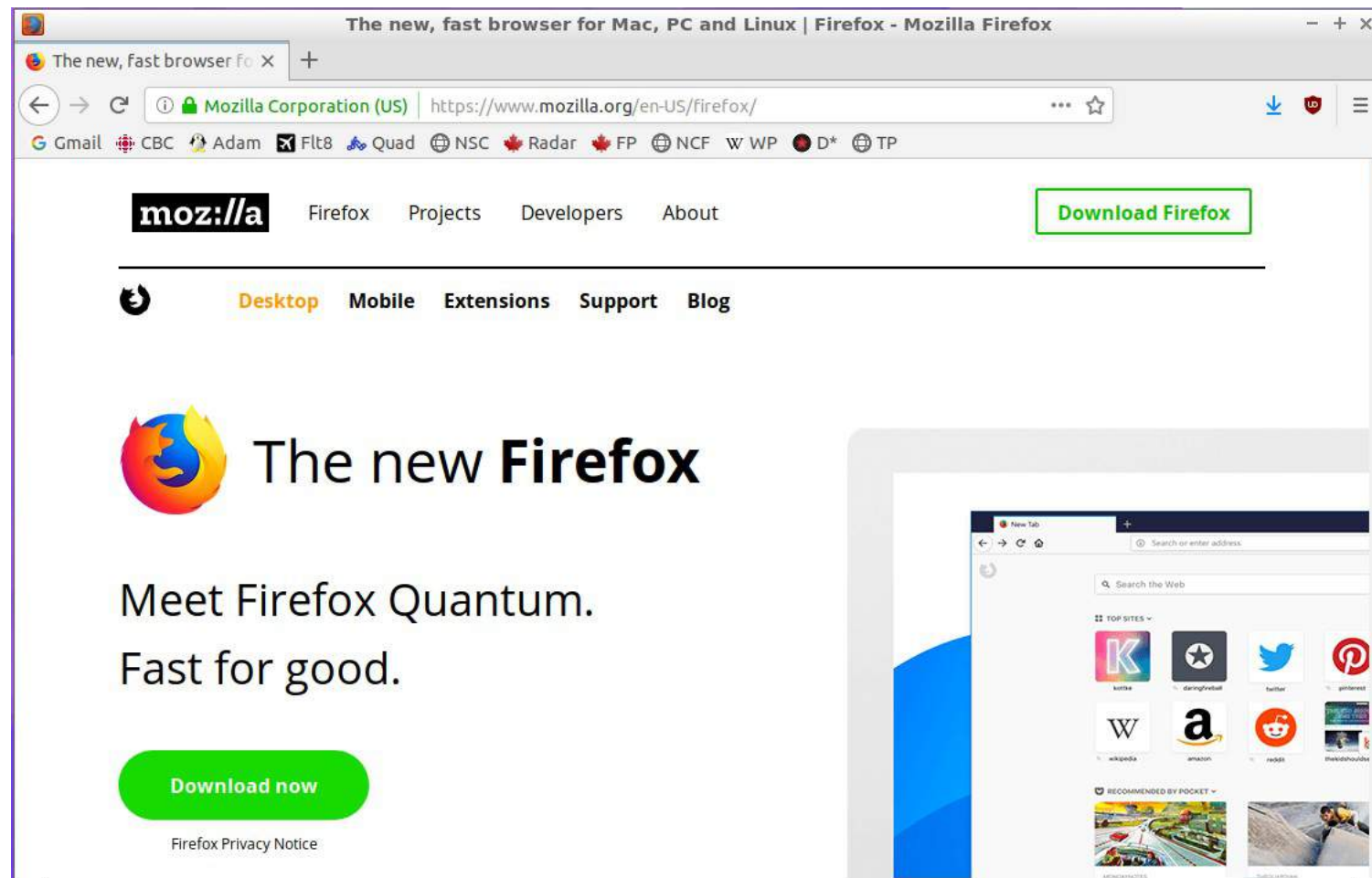


## **“Saved with a Click” From National Capital FreeNet**

With thanks to the City of Ottawa's Community Economic Development Funding Program

**Open Source software “From free and robust operating systems to free software that can work on your existing system”**

You may already be using free software! Like Firefox:



## What is free software?

Types of software:

- Proprietary software – costs money, (like Microsoft Office)
- Proprietary freeware, given away for free (like Google Chrome)
- Proprietary shareware:
  - **Adware** - has advertising
  - **Crippleware** – downgraded version
  - **Trialware** – limited time use (i.e. 30 day free trial)
  - **Nagware** – free, but bugs you to pay for it regularly
  - **Freemium** – free version with limited features, full version available for a cost (Like Kaspersky Anti-Virus or AVG AntiVirus Free)

## Free Software

Free Software Foundation definition:

- The freedom to run the program as you wish, for any purpose (freedom 0)
- The freedom to study how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.
- The freedom to redistribute copies so you can help others (freedom 2).
- The freedom to distribute copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

## **Free Licences**

Examples:

- Gnu Public Licence
- BSD Licence
- Mozilla Public License
- Many others
- Licensing matters!

## **Who Cares?**

The case of Skype:

- Skype is voice, text and video communication software for talking to people, that was created by Niklas Zennström of Sweden and the Janus Friis of Denmark, in cooperation with Ahti Heinla, Priit Kasesalu and Jaan Tallinn, both of Estonia.
- Released in 2003 as freemium freeware
- Bought by Microsoft in May 2011 for \$8.5 billion
- Then came the Edward Snowden revelations and we learned new things about how it has been used to spy on people
- Skype is not open source
- Skype sends traffic even when off
- May have back doors built in
- NSA can listen in and record all conversations for analysis

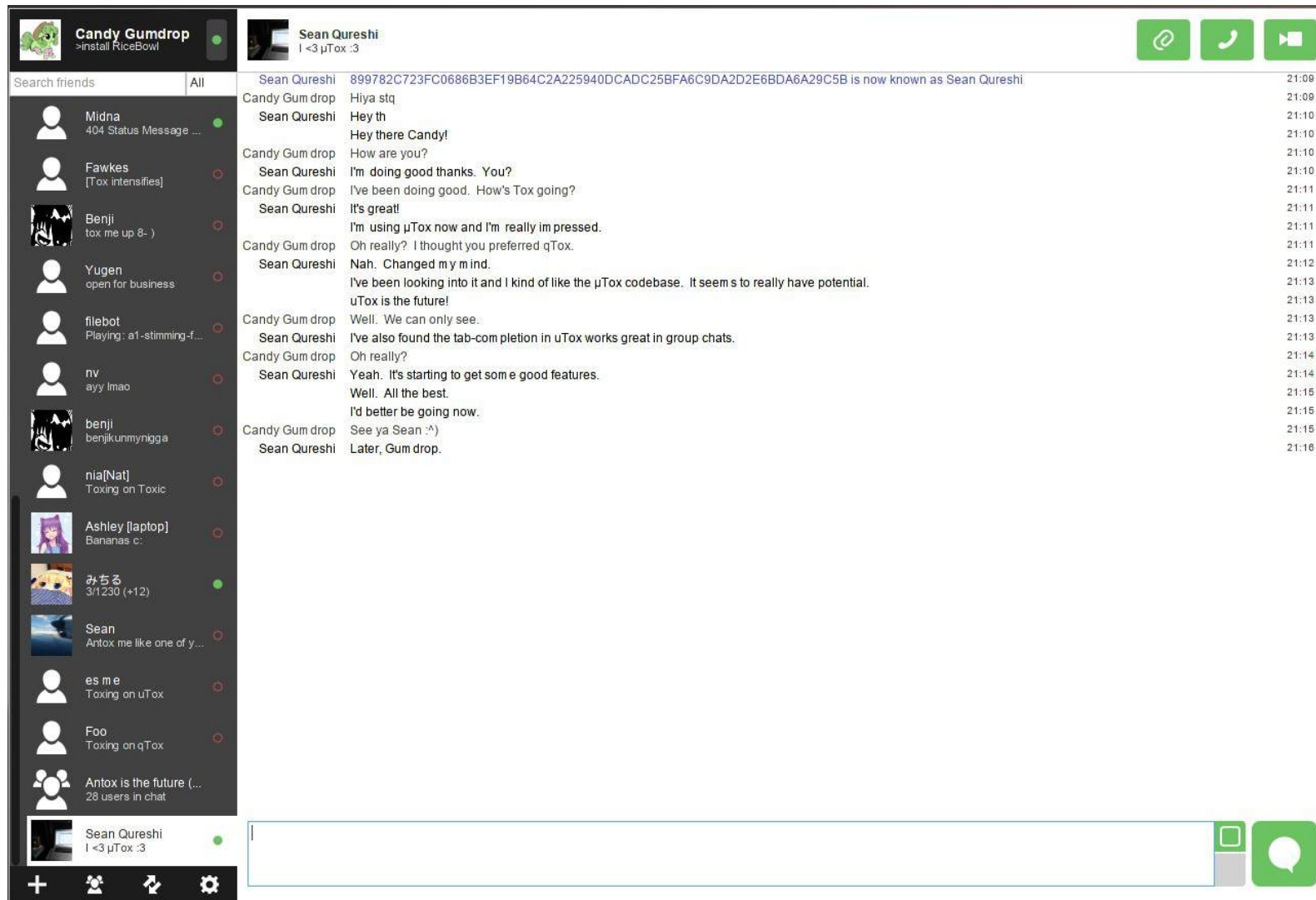
- 25 June 2008, officials at the Austrian interior ministry stated that they were able to listen in on any Skype conversations, anytime
- 2012 Washington Post article said that Skype "has expanded its cooperation with law enforcement authorities to make online chats and other user information available to police"
- The Washington Post article also notes that Skype made software changes to allow authorities access to user's addresses and credit card numbers
- In November 2012, Skype turned over user data for a WikiLeaks activist, to iSIGHT Partners, a private security company in Dallas, Texas, without a warrant or court order.
- The 2013 Snowden disclosures revealed that the NSA and the FBI have the ability to listen to all Skype communications, including text and video calls and file transfers.
- The PRISM surveillance program, approved by the FISA court, reportedly has allowed the NSA complete access to its data center connections.
- According to the leaked Snowden documents, NSA work began in November 2010.
- In February 2011 the company was subject to a directive to comply, signed by the attorney general.
- NSA documents show that data collection began on 31 March 2011.

### **Conclusions:**

- Skype has been compromised
- Not safe for anyone to use

But there are free software alternatives, like Tox, that don't even use central servers, just work peer-to-peer, so there is no reason to use non-free software.

This shows one Tox application, uTox:



## Free Software for Windows

- There are 1,000s of examples of free software applications for Windows users
- For any just about purpose
- Most are better designed and work better than proprietary software
- Freely audited code
- No spyware or malware



## Best of Windows Free Software

This is a DVD of free software that has been given away at the NCF office since 2008.

DVD home page: <http://web.ncf.ca/fn352/wincd.html>

You can also download the applications directly.

NCF has a web page that:

- Describes each application
- Gives the licence
- Links to background information, like Wikipedia and FOSS Manuals (how to use it)
- Gives the application home page
- Gives the direct link to download it

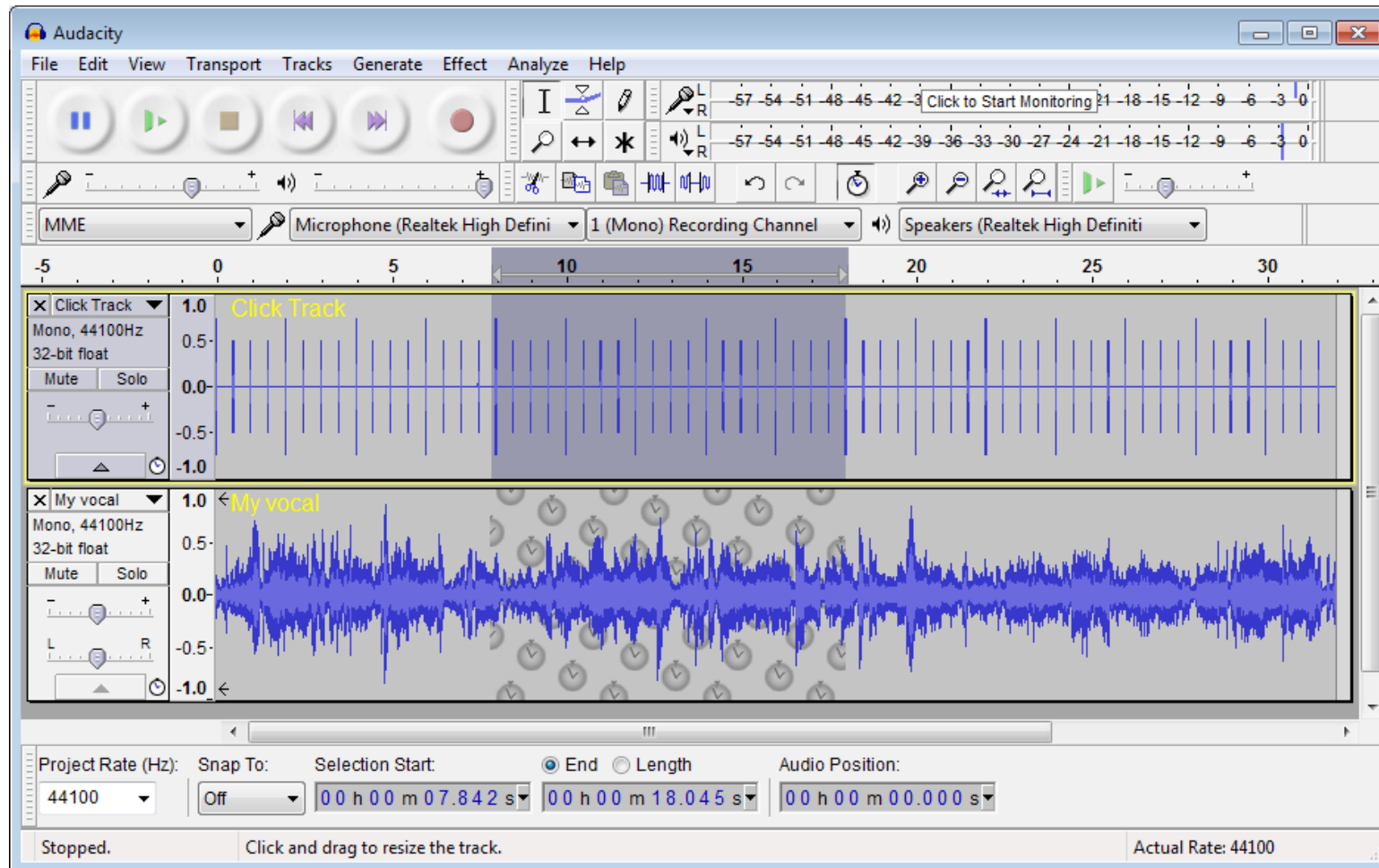
[https://www.ncf.ca/ncf/support/wiki/Best\\_Of\\_Free\\_Windows\\_Software](https://www.ncf.ca/ncf/support/wiki/Best_Of_Free_Windows_Software)



## Audacity

Audio recorder and editor

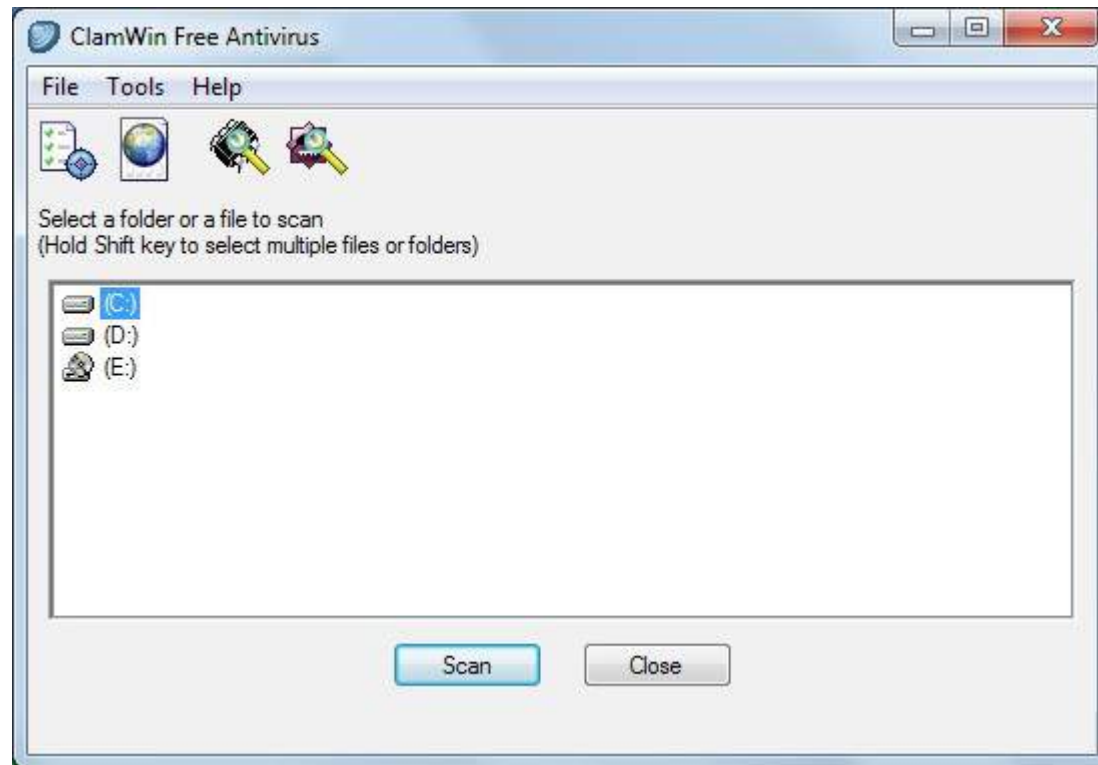
Download: <https://www.audacityteam.org/download/windows/>



## ClamWin

Anti-virus scanner

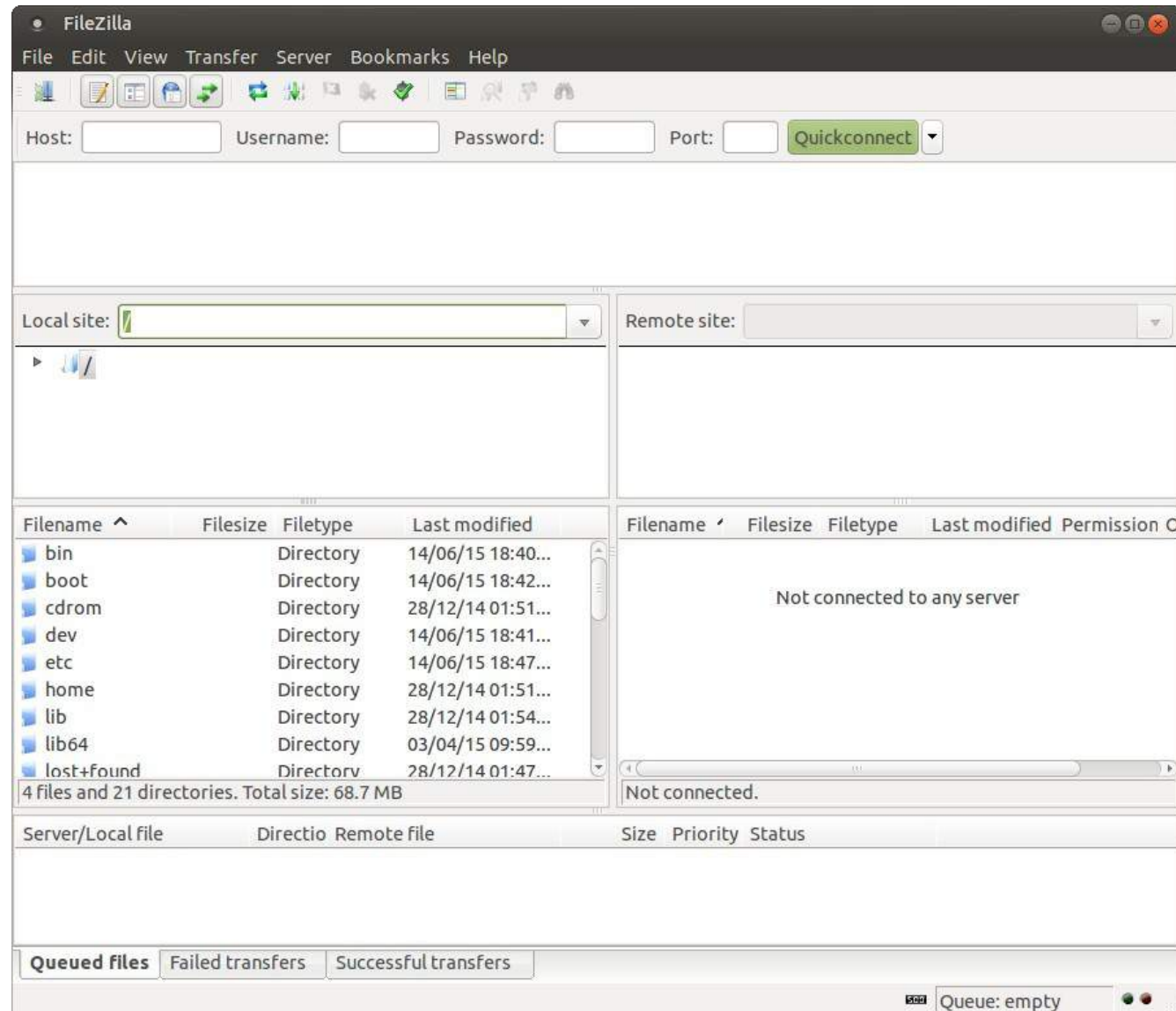
Download: <https://www.clamwin.com/content/view/18/46/>



## FileZilla

File Transfer Protocol (FTP) client

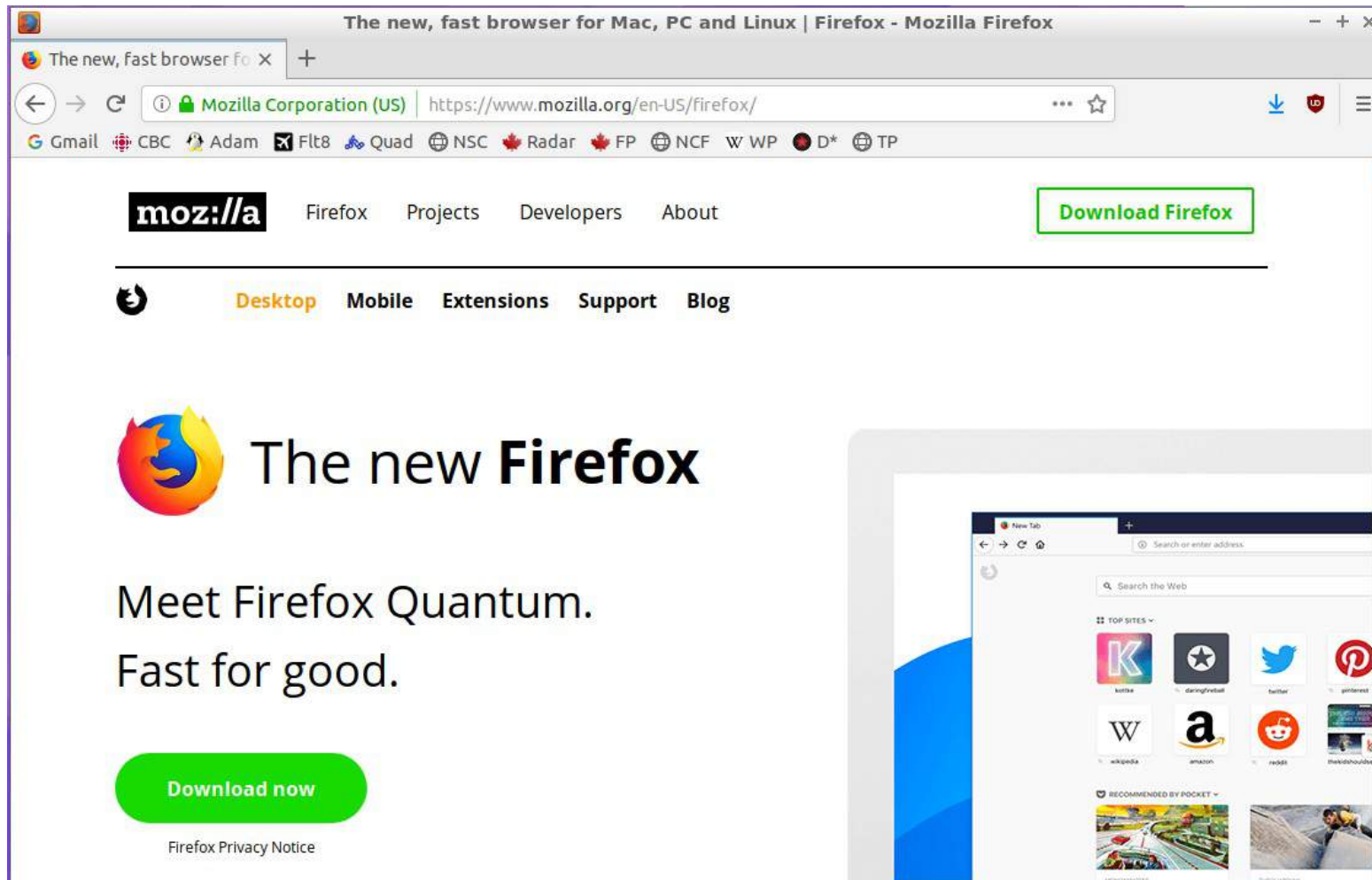
Download: [https://filezilla-project.org/download.php?show\\_all=1](https://filezilla-project.org/download.php?show_all=1)



## Firefox

Web browser and PDF reader

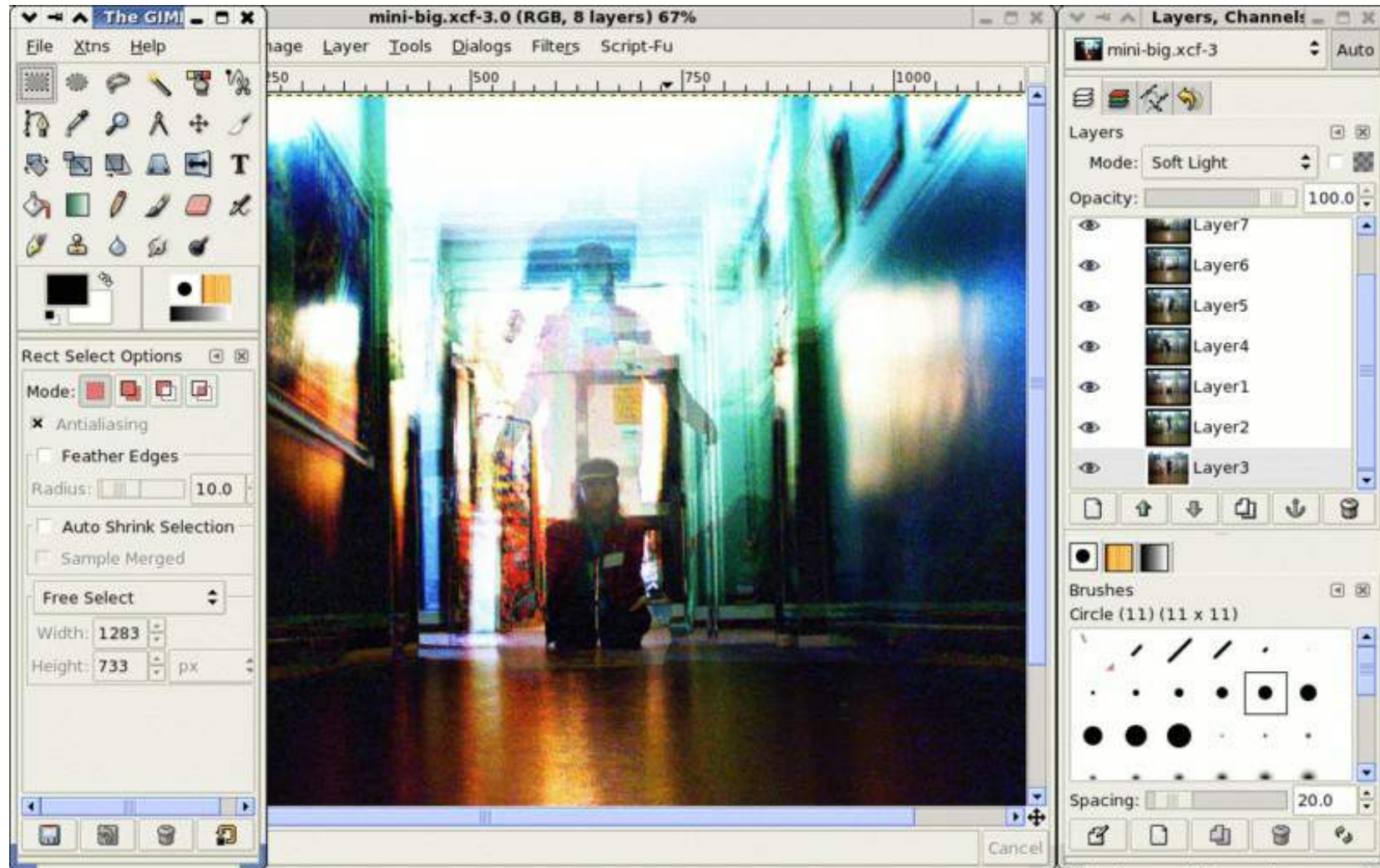
Download: <https://www.mozilla.org/en-US/firefox/all/>



## GIMP (Gnu Image Manipulation Program)

Image editor

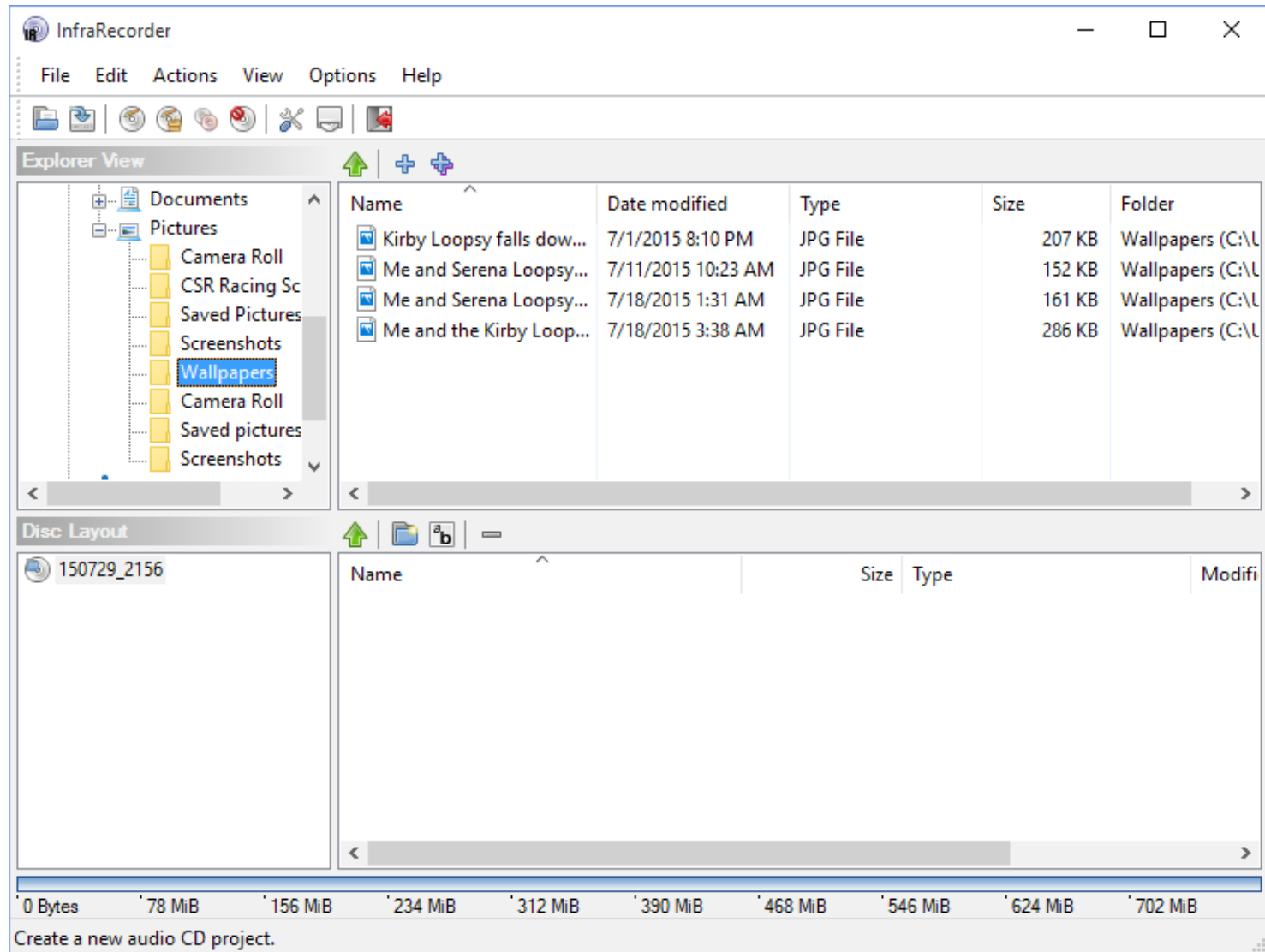
Download: <https://www.gimp.org/downloads/>



## InfraRecorder

CD and DVD burning

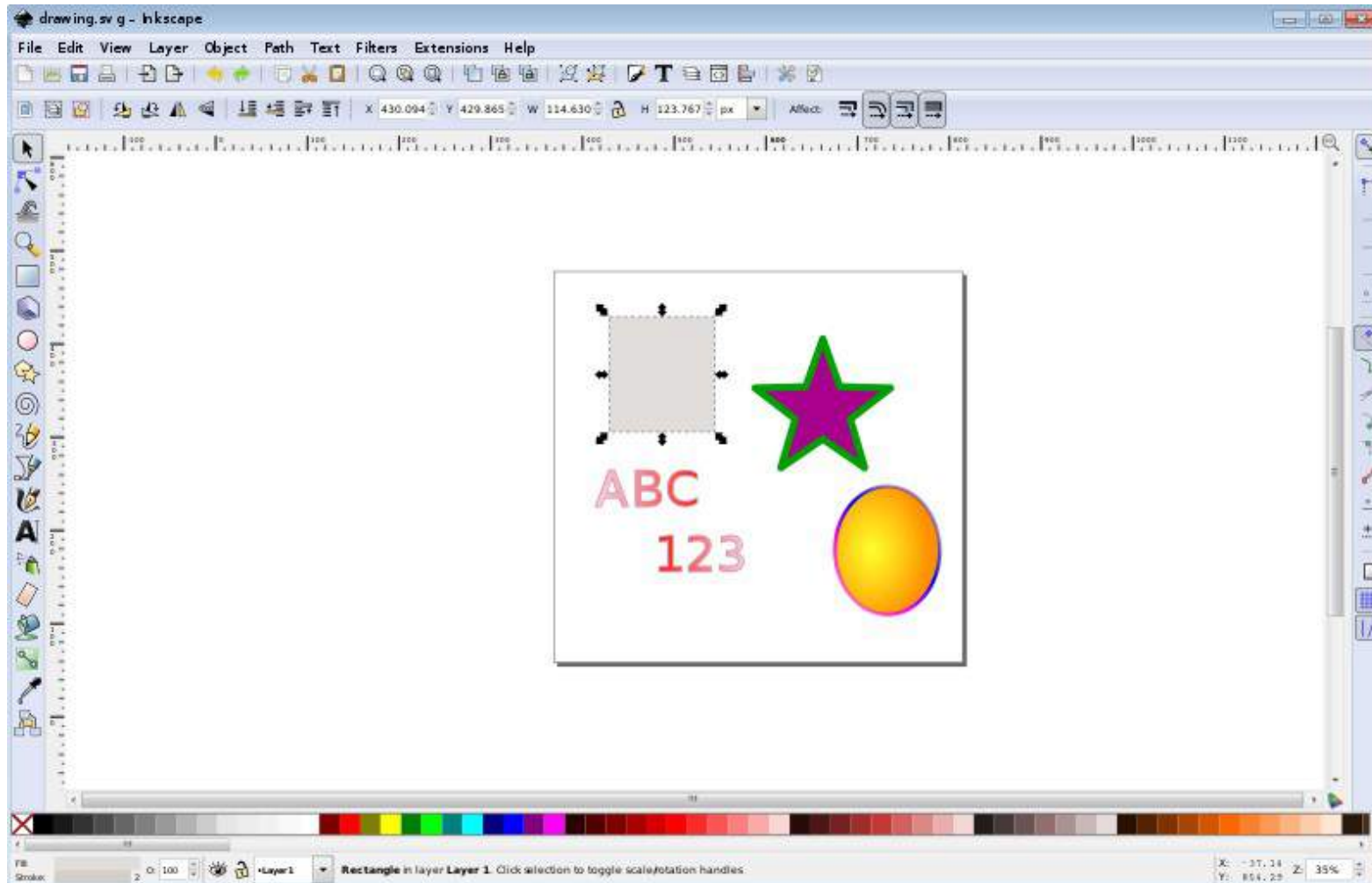
Download: [http://infraRecorder.org/?page\\_id=5](http://infraRecorder.org/?page_id=5)



# Inkscape

Vector image creator

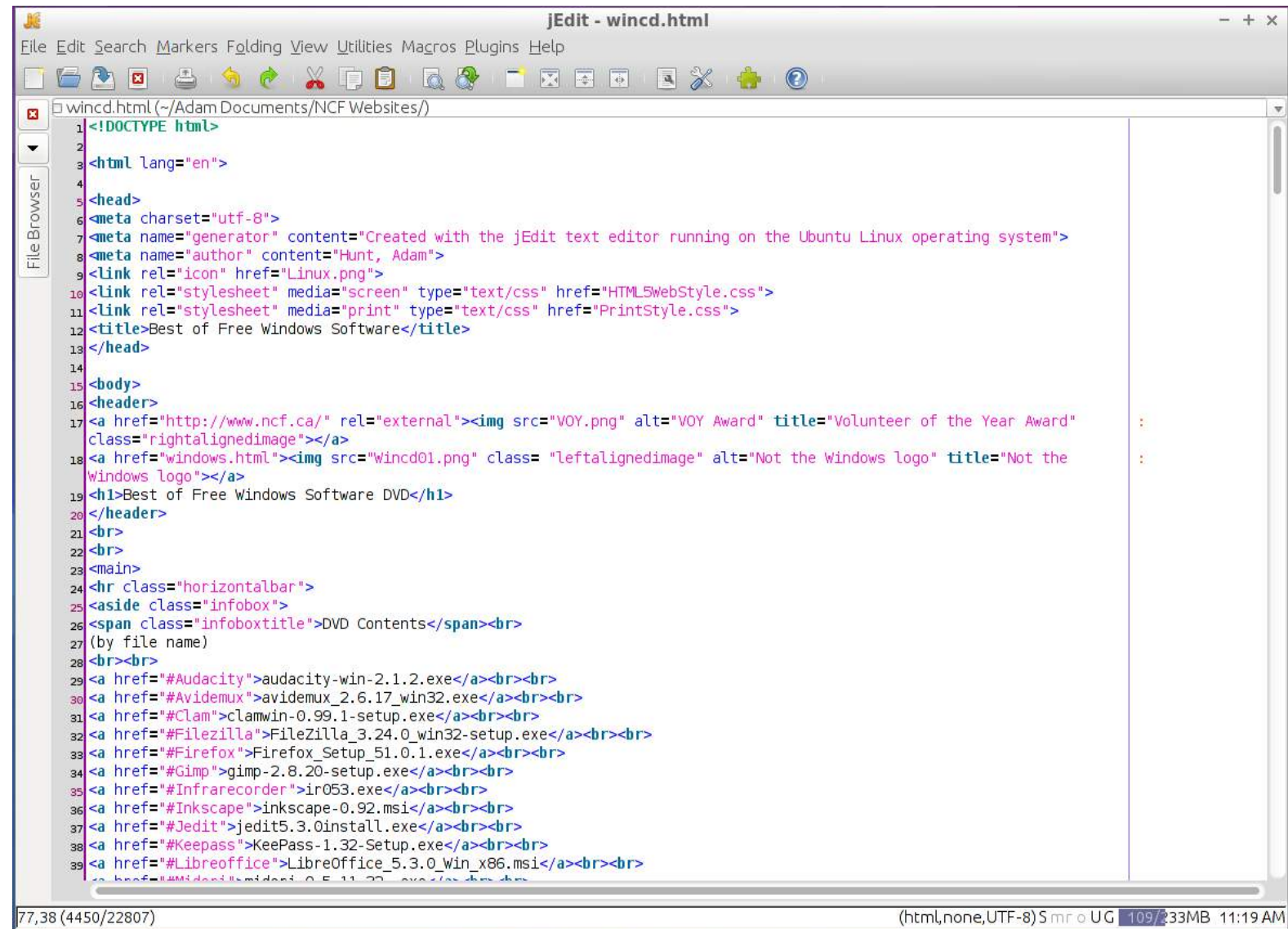
Download: <https://inkscape.org/en/release/0.92.2/windows/>



## jEdit

Text editor

Download: <https://sourceforge.net/projects/jedit/>



The screenshot shows the jEdit text editor window titled "jEdit - wincd.html". The menu bar includes File, Edit, Search, Markers, Folding, View, Utilities, Macros, Plugins, and Help. The toolbar contains various icons for file operations and editing. The left sidebar shows a "File Browser" pane with a tree view of the file system, currently showing the path "~/Adam Documents/NCF Websites/". The main editor area displays the content of "wincd.html", which is an HTML document. The code is as follows:

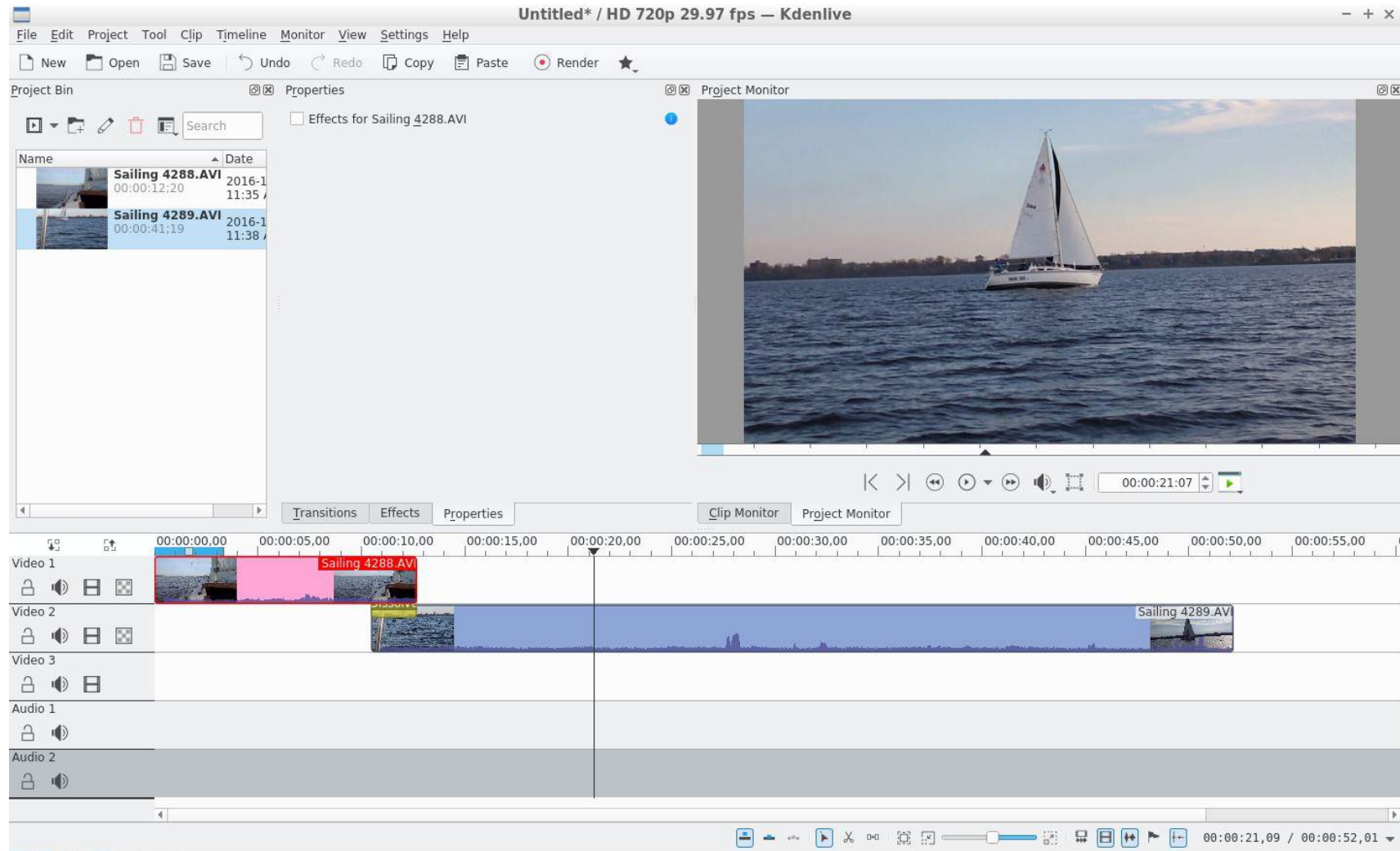
```
1 <!DOCTYPE html>
2
3 <html lang="en">
4
5 <head>
6 <meta charset="utf-8">
7 <meta name="generator" content="Created with the jEdit text editor running on the Ubuntu Linux operating system">
8 <meta name="author" content="Hunt, Adam">
9 <link rel="icon" href="Linux.png">
10 <link rel="stylesheet" media="screen" type="text/css" href="HTML5WebStyle.css">
11 <link rel="stylesheet" media="print" type="text/css" href="PrintStyle.css">
12 <title>Best of Free Windows Software</title>
13 </head>
14
15 <body>
16 <header>
17 <a href="http://www.ncf.ca/" rel="external"></a>
19 <a href="windows.html"></a>
21 <h1>Best of Free Windows Software DVD</h1>
22 </header>
23 <br>
24 <br>
25 <main>
26 <hr class="horizontalbar">
27 <aside class="infobox">
28 <span class="infoboxtitle">DVD Contents</span><br>
29 (by file name)
30 <br><br>
31 <a href="#Audacity">audacity-win-2.1.2.exe</a><br><br>
32 <a href="#Avidemux">avidemux_2.6.17_win32.exe</a><br><br>
33 <a href="#Clam">clamwin-0.99.1-setup.exe</a><br><br>
34 <a href="#Filezilla">FileZilla_3.24.0_win32-setup.exe</a><br><br>
35 <a href="#Firefox">Firefox_Setup_51.0.1.exe</a><br><br>
36 <a href="#Gimp">gimp-2.8.20-setup.exe</a><br><br>
37 <a href="#Infrarecorder">ir053.exe</a><br><br>
38 <a href="#Inkscape">inkscape-0.92.msi</a><br><br>
39 <a href="#Jedit">jedit5.3.0install.exe</a><br><br>
40 <a href="#Keepass">Keepass-1.32-Setup.exe</a><br><br>
41 <a href="#Libreoffice">LibreOffice_5.3.0_Win_x86.msi</a><br><br>
42 <a href="#Midori">midori-0.5.11-22.exe</a><br><br>
```

The status bar at the bottom shows "77,38 (4450/22807)" on the left and "(html,none,UTF-8) S m r o U G 109/233MB 11:19 AM" on the right.

# Kdenlive

Non-linear video editor

Download: <https://kdenlive.org/en/download/>



## KeePass

Secure password manager

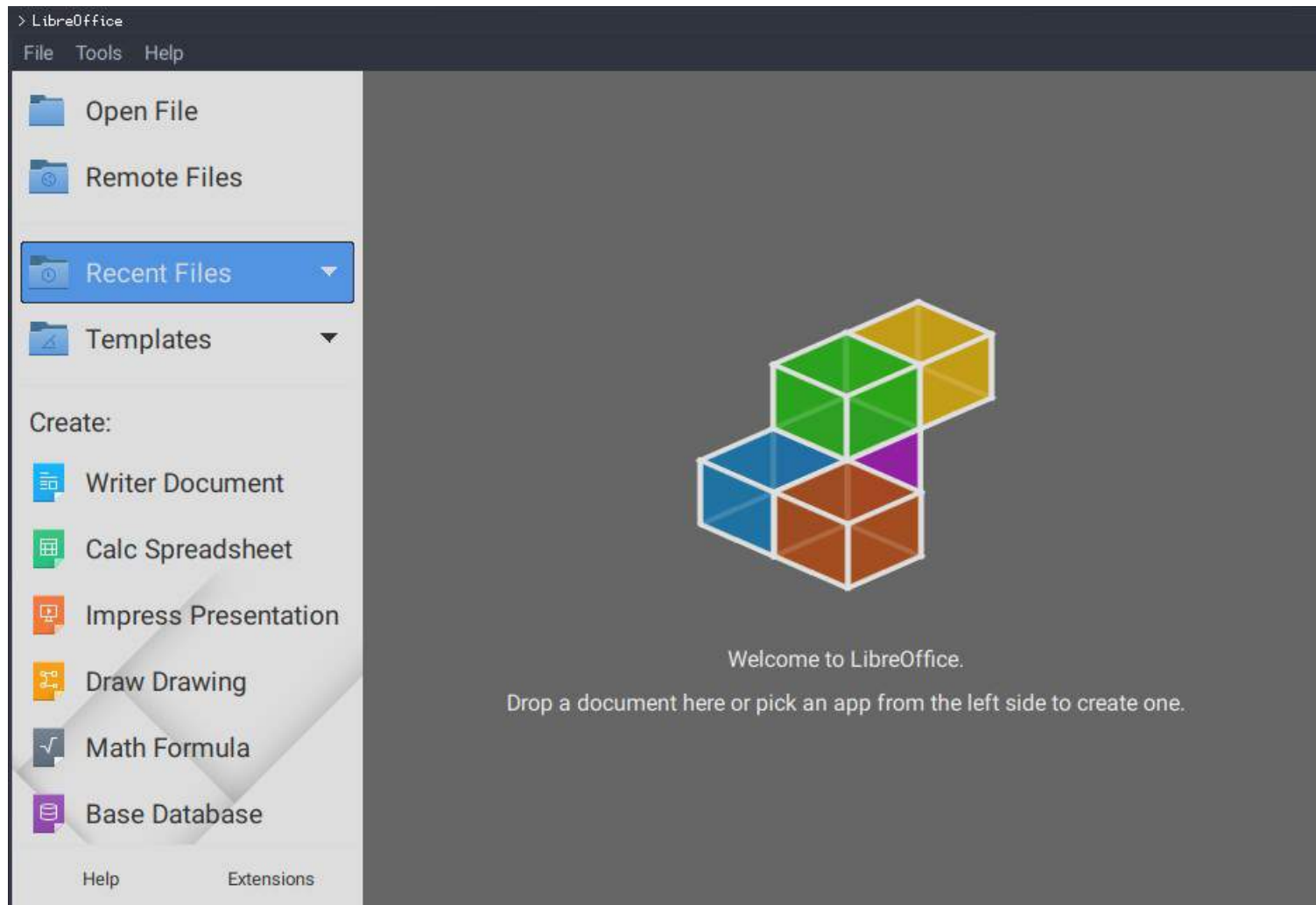
Download: <https://keepass.info/download.html>



## LibreOffice

Complete office suite, including word processor and desktop publisher, spreadsheet, database, slide show, vector drawing application and math formula writer.

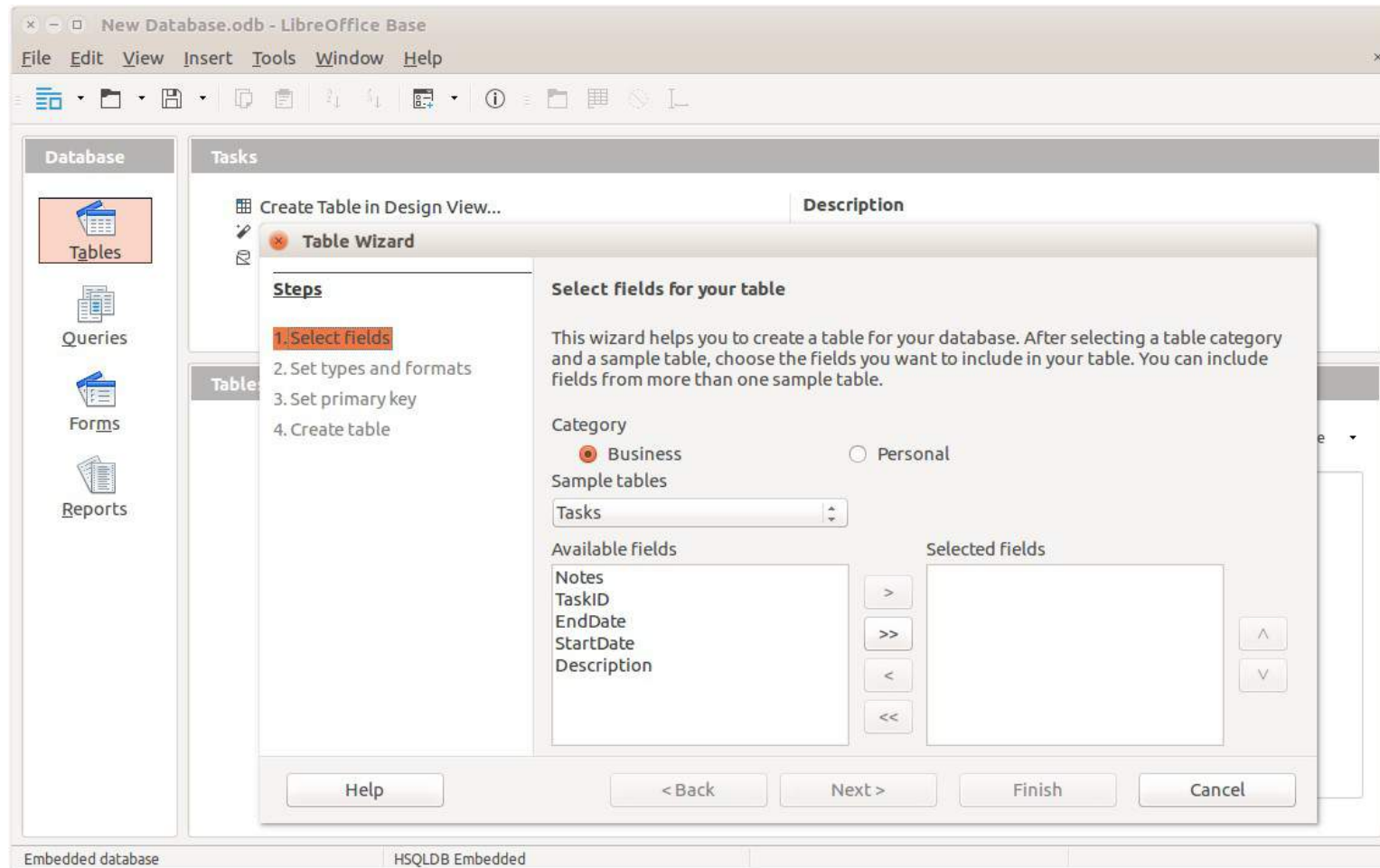
Download: <https://www.libreoffice.org/download/download/>



**Components of LibreOffice are:**

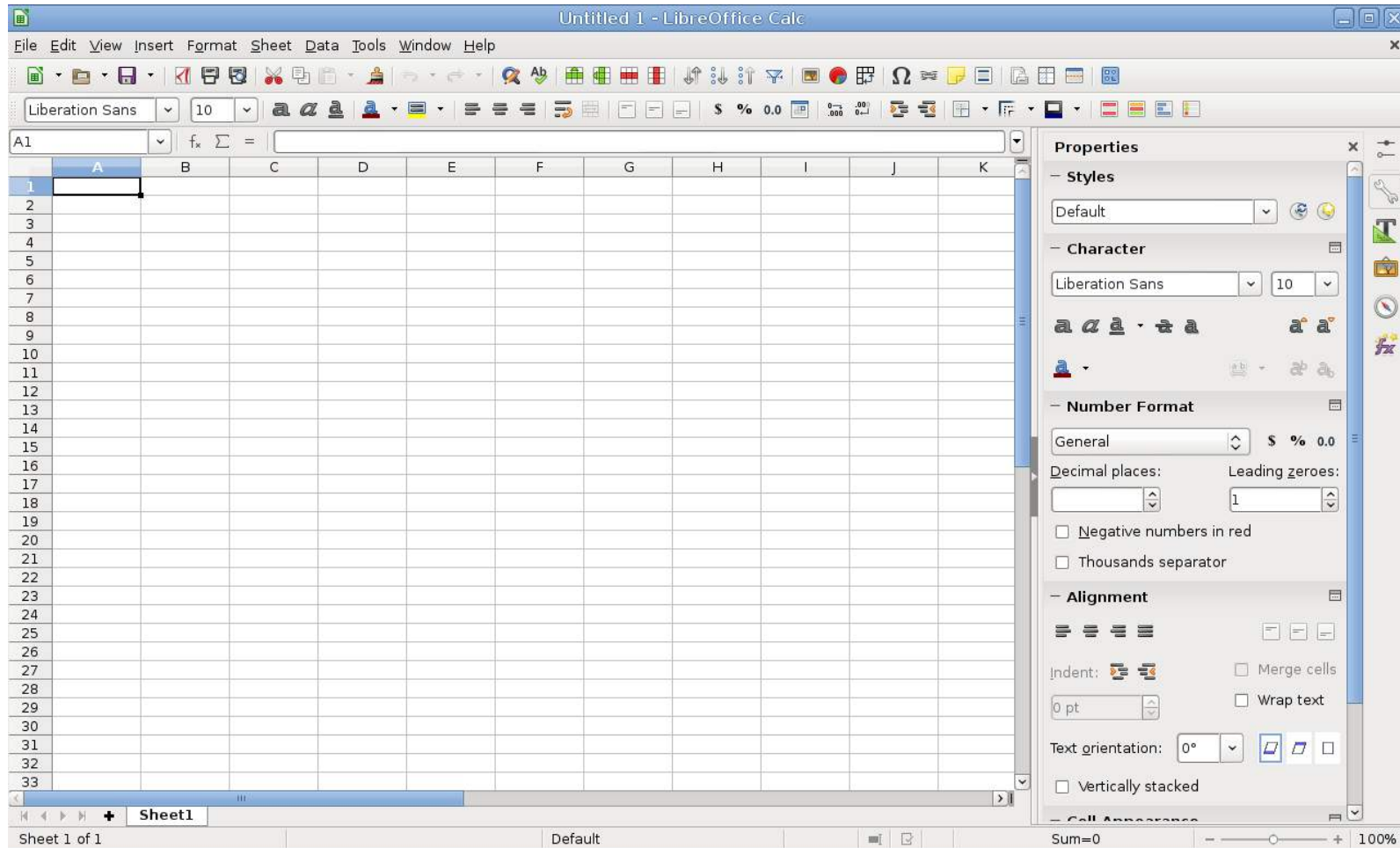
**LibreOffice Base**

Database



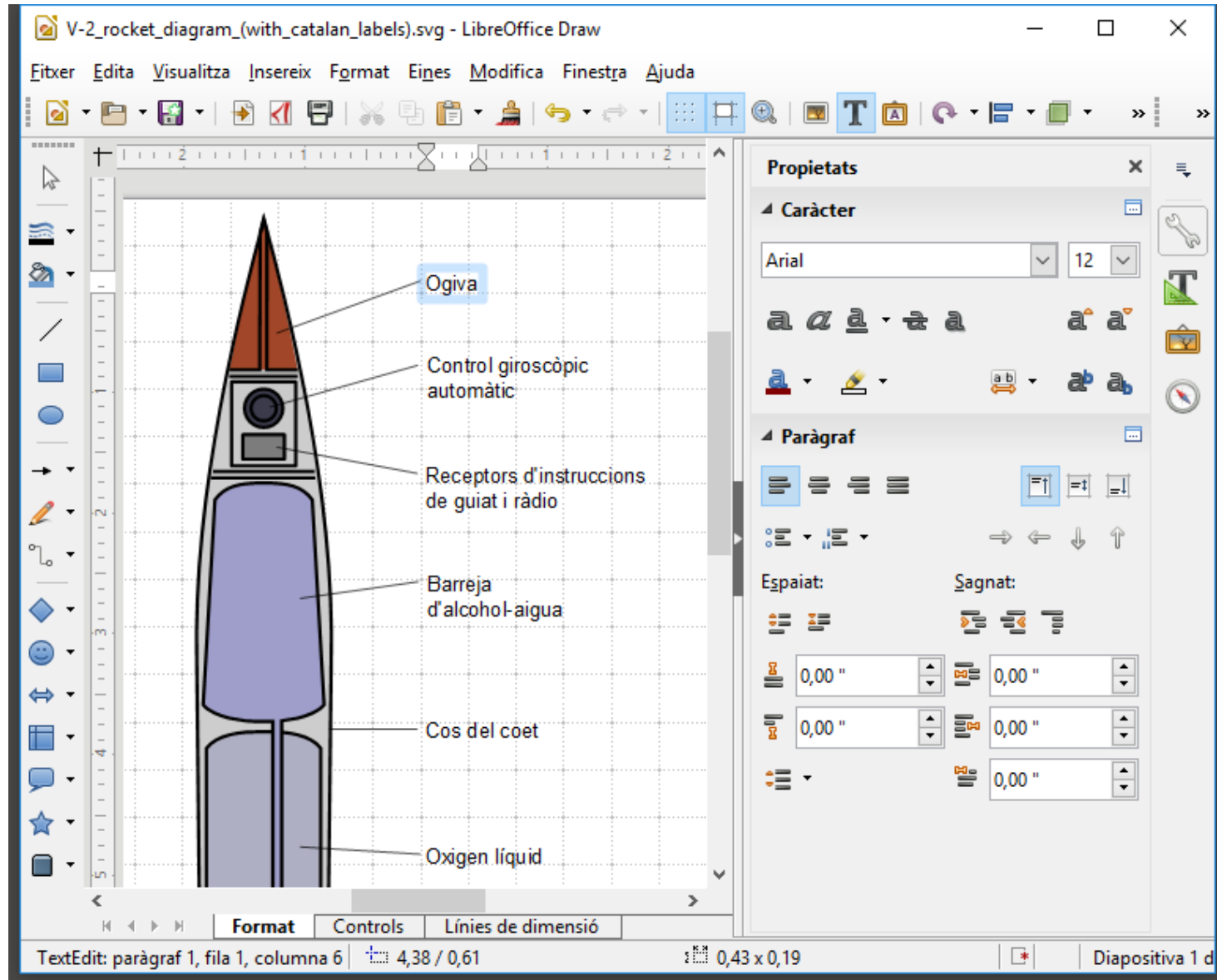
# LibreOffice Calc

## Spreadsheet



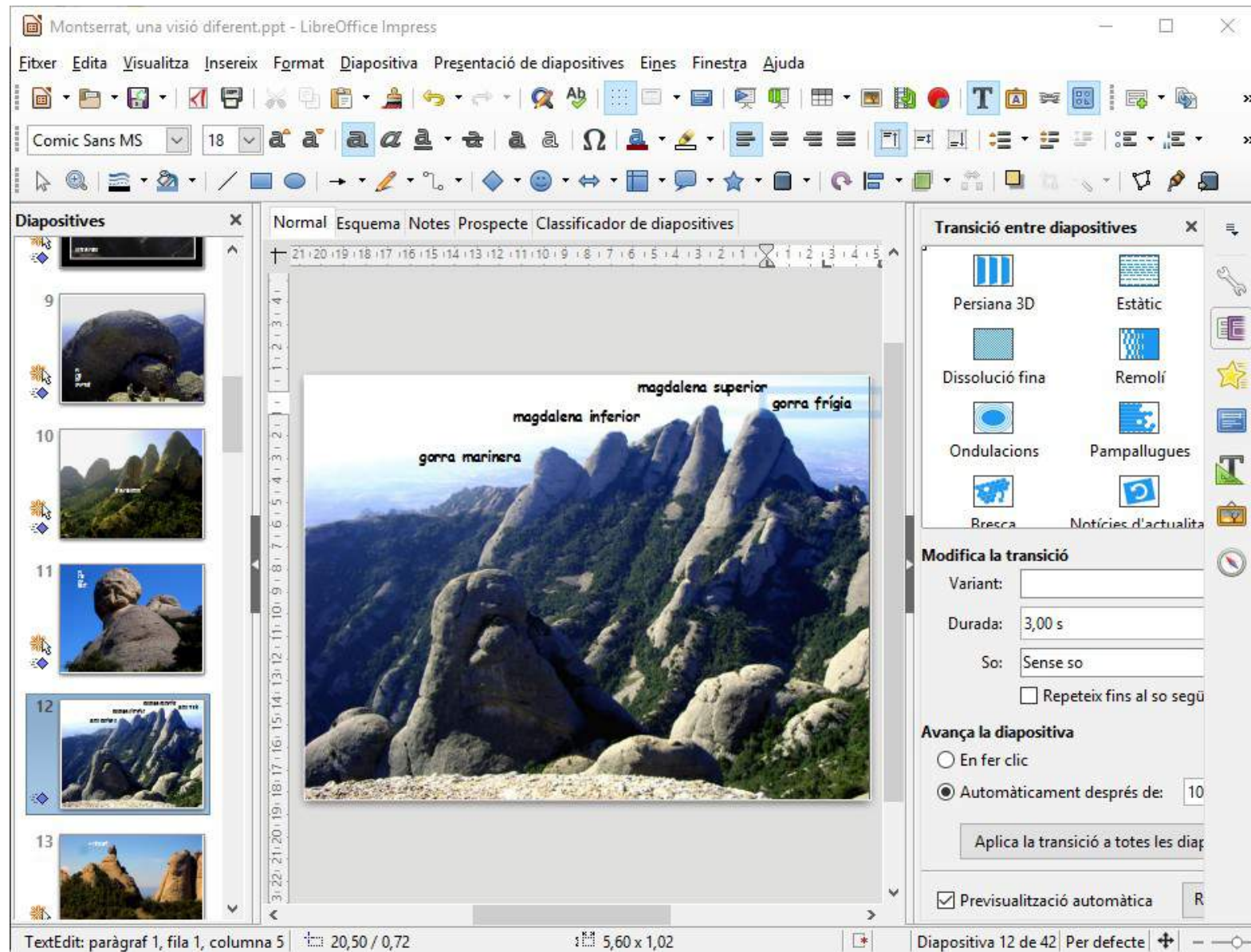
## LibreOffice Draw

Vector drawing application



# LibreOffice Impress

## Slide show presentation



## LibreOffice Math

### Math formula writer

Exemple.odf - LibreOffice Math

Fitxer Edita Visualitza Format Eines Finestra Ajuda

Claudàtors

$$\int_1^{\pi} \cosh(x) dx = \sinh(\pi) - \sinh(1)$$
$$|M| = \begin{vmatrix} 3 & 4 \\ 5 & 6 \end{vmatrix} = (3 * 6) - (5 * 4) = -2$$
$$x = -b \pm \frac{\sqrt{b^2 - 4ac}}{2a}$$

```
int to { %pi } from { 1 } cosh ( x ) dx = sinh ( %pi ) - sinh ( 1 )
newline
lline M rline = left lline matrix{ 3 # 4 ## 5 # 6 } right rline = ( 3 * 6 ) - (
= - 2
newline
x = - b +- { sqrt { b ^ 2 - 4 ac } over { 2 a } }
```

157%

## Stellarium

Planetarium software

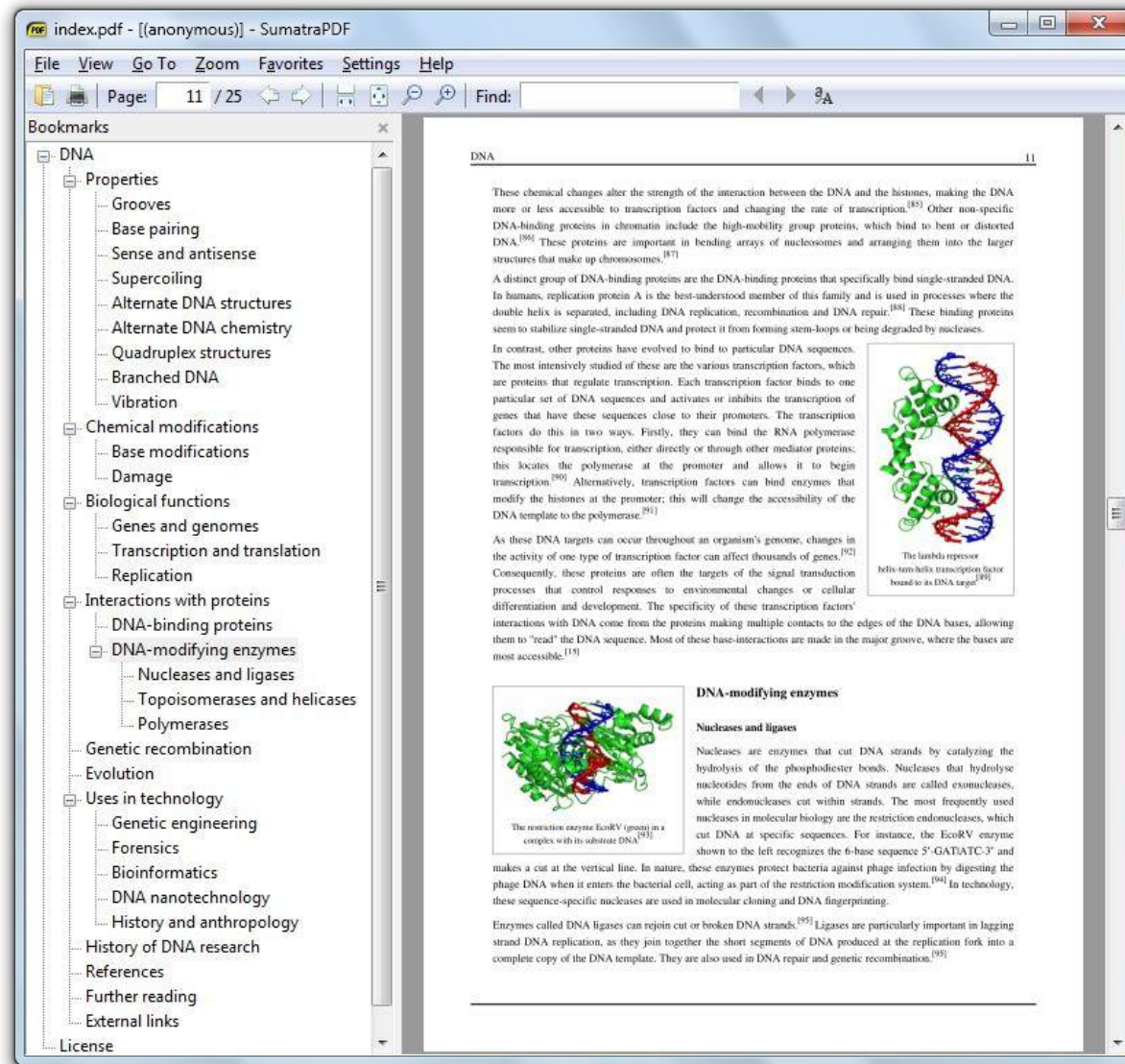
Download: <http://stellarium.org/>



# Sumatra

PDF reader

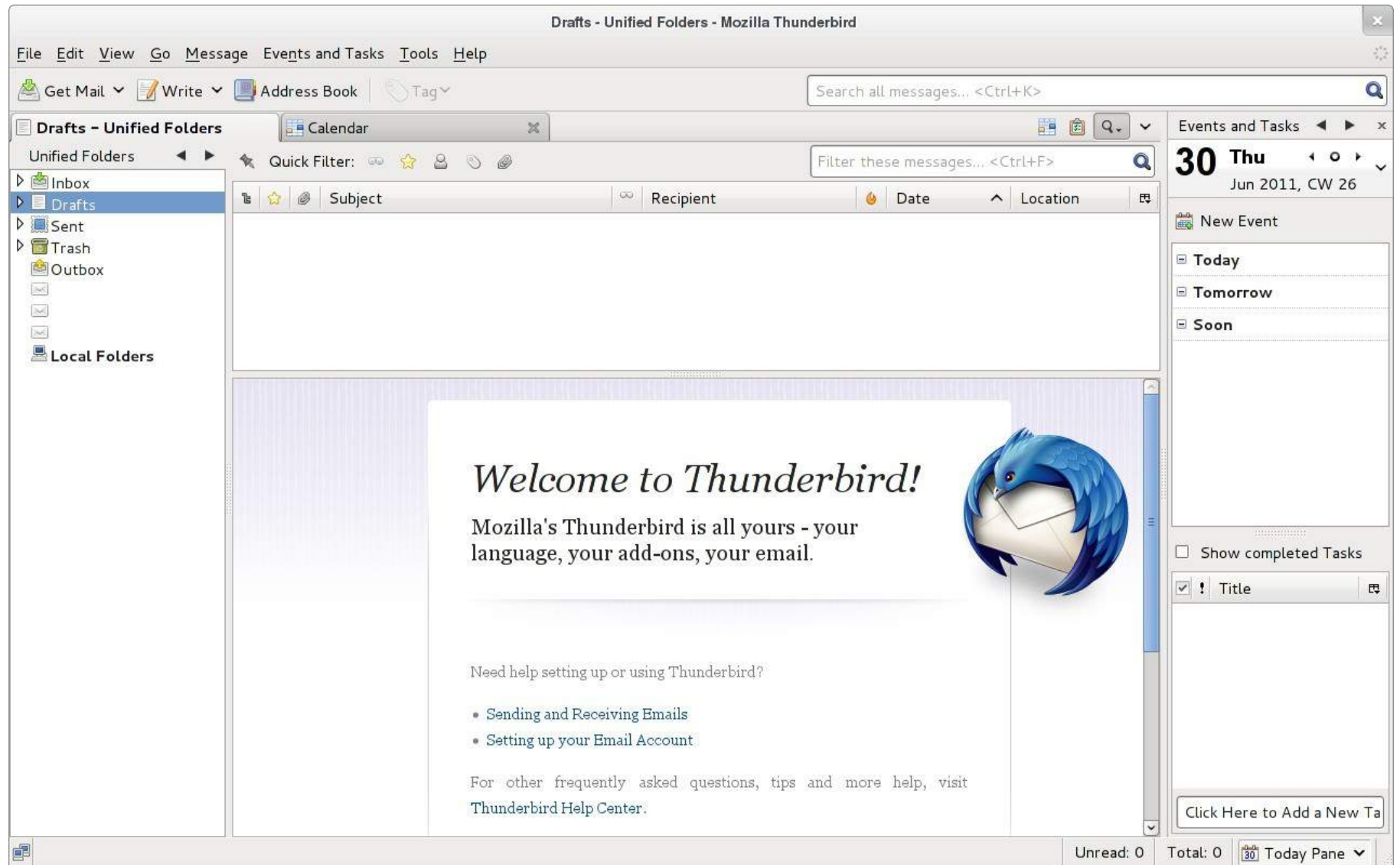
Download: <https://www.sumatrapdfreader.org/download-free-pdf-viewer.html>



# Thunderbird

Email client

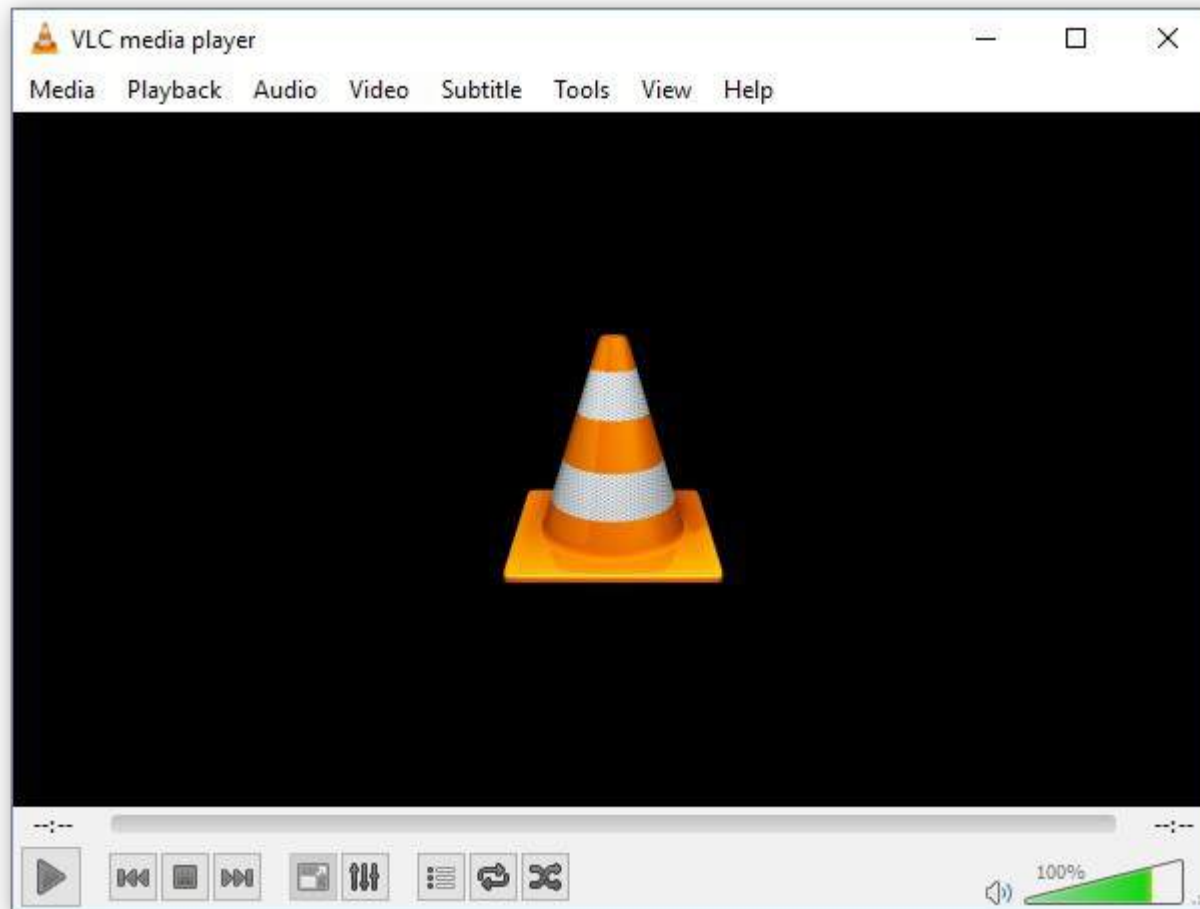
Download: <https://www.mozilla.org/en-US/thunderbird/all/>



## VLC

Media player

Download: <https://www.videolan.org/vlc/download-windows.html>

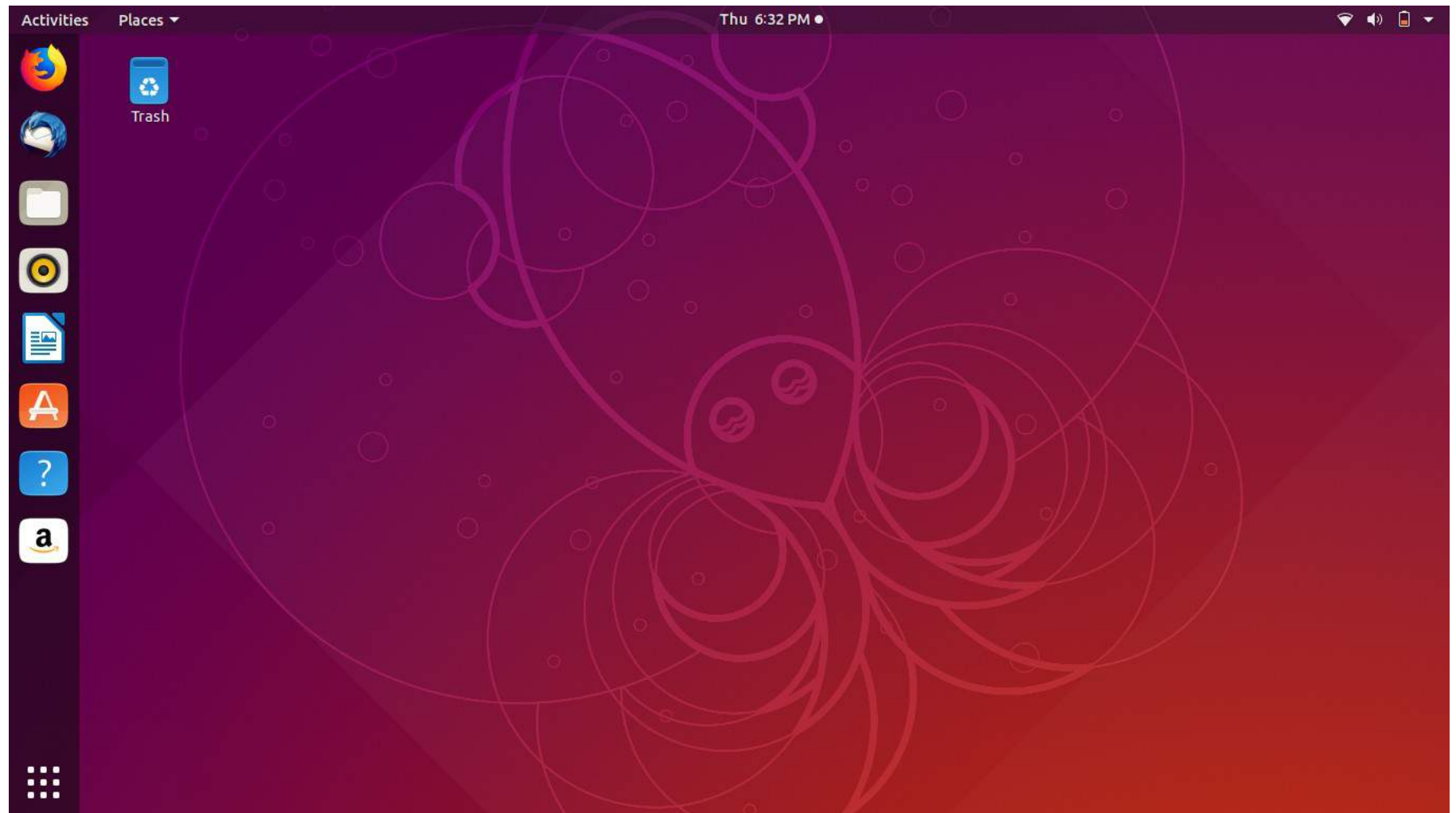


## **Free Software Operating Systems**

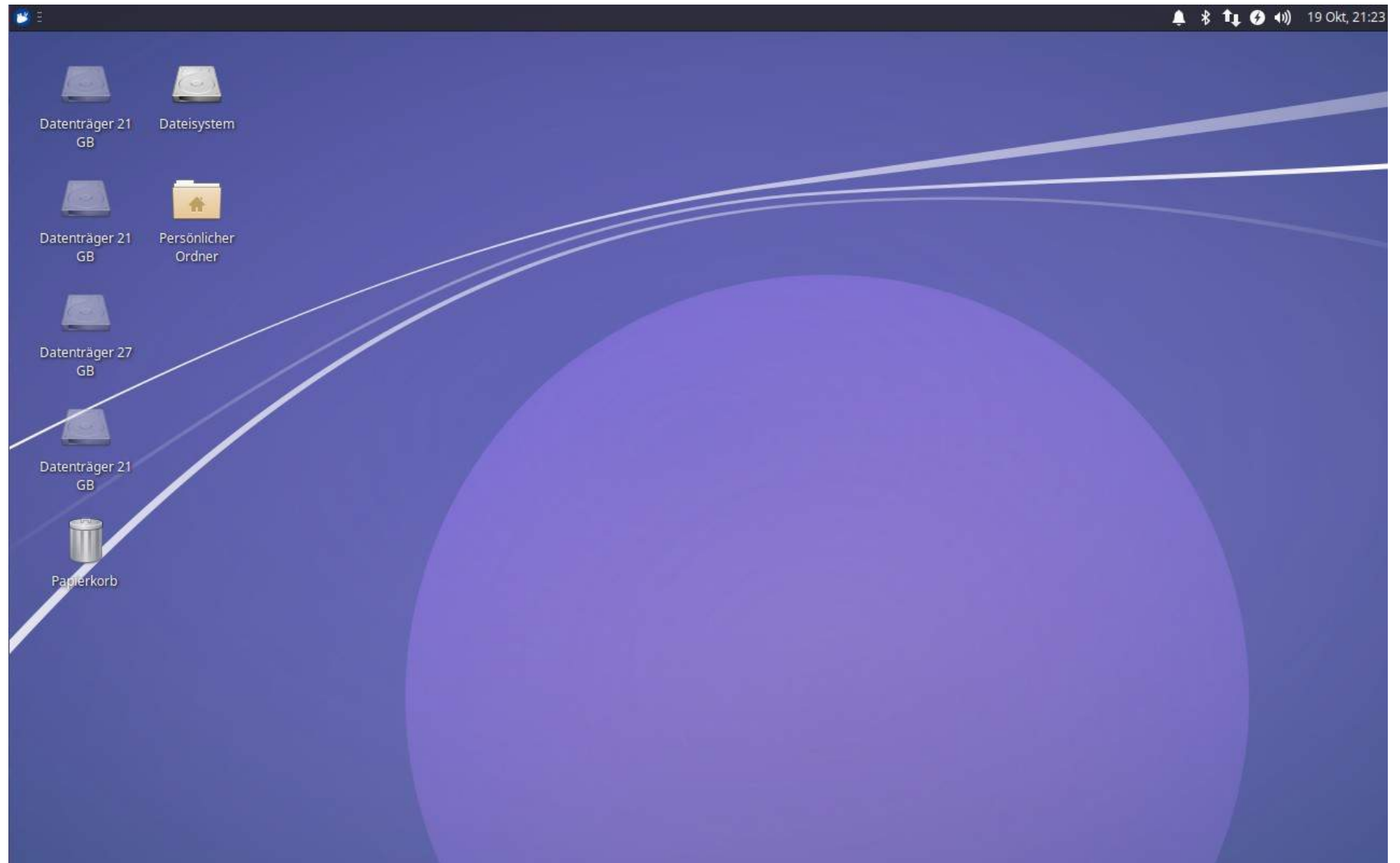
There are entire operating systems, built on free software, most based upon Linux and BSD. Some examples that have been given away at NCF:

- Ubuntu
- Xubuntu
- Lubuntu
- Puppy Linux
- All-In-One System Rescue Toolkit

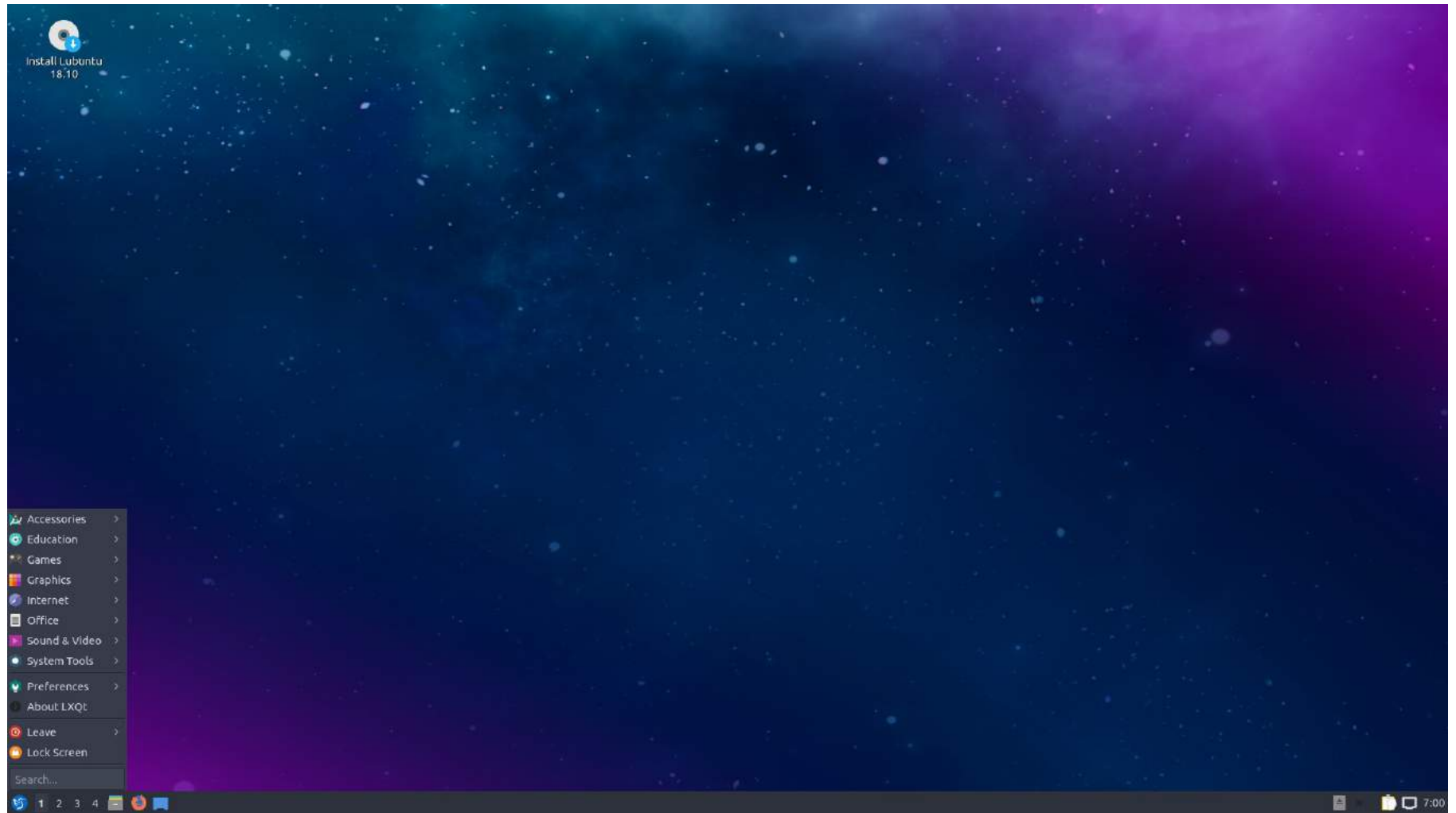
# Ubuntu



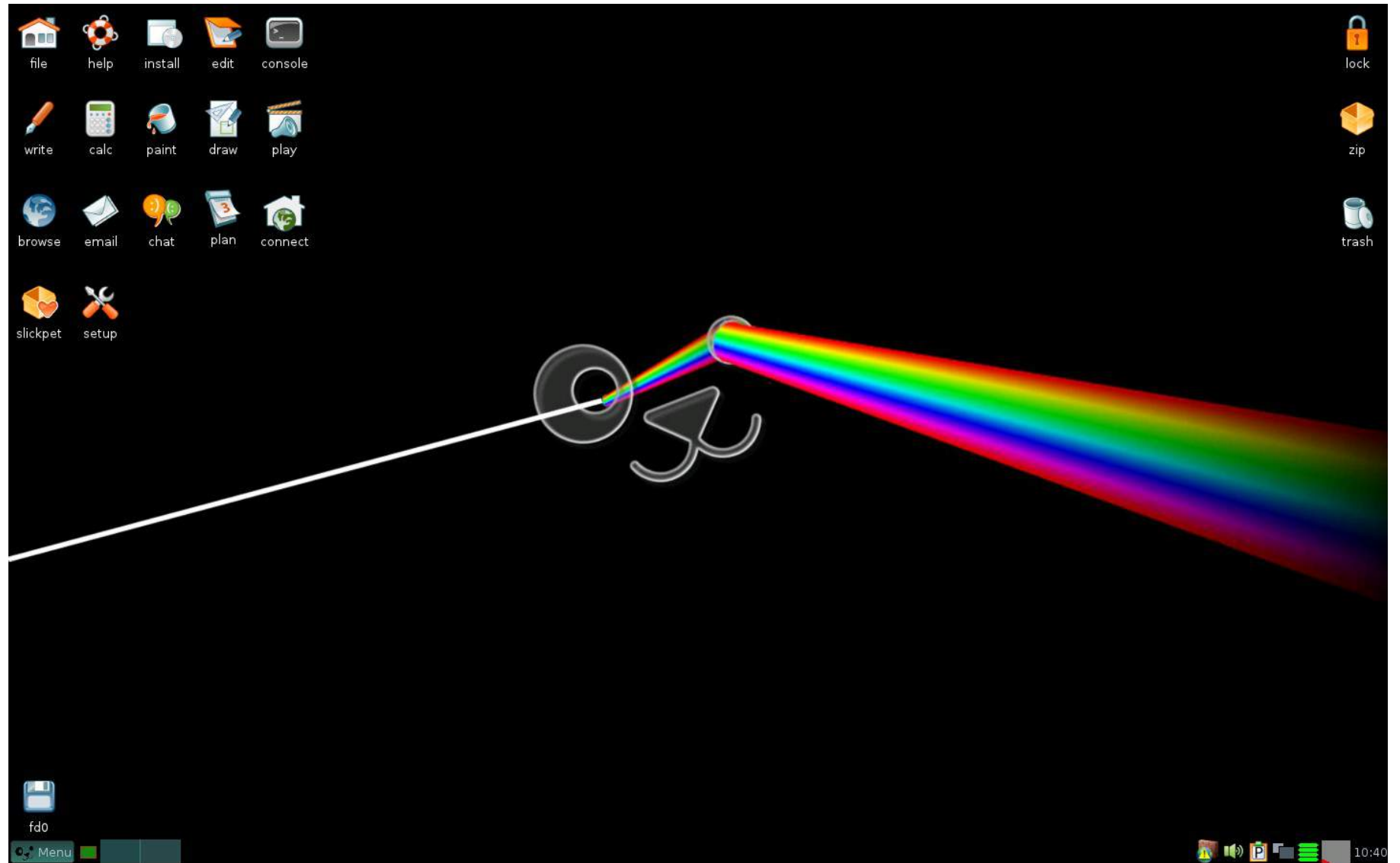
# Xubuntu



# Lubuntu



## Puppy Linux



## All in One System Rescue Toolkit

**All in One - System Rescue Toolkit**  
<http://paul.is-a-geek.org/aio-srt/>

OS Version	Ubuntu 16.04.3 LTS
Up Time	0h 1m 57s
Computer Name	iubuntu
User	iubuntu
OEM Product	Innotek GmbH, VirtualBox
Serial Number	0
Motherboard	VirtualBox
CPU Type	Intel(R) Core(TM) i7 CPU
CPU Count	920 @ 2.67GHz
CPU	1
Physical Memory	331MiB/3.86GiB (8%)
Mounted Disks	
cdrom: 662MiB	
rofs: 530MiB	
Display Controller	InnoTek Systemberatung GmbH VirtualBox Graphics Adapter
Domain	(none)
lo UNKNOWN	127.0.0.1/8 ::1/128
enp0s3 UP	10.0.2.15/24 fe80::4e3b:c829:4c4f:ab99/64
Gateway	10.0.2.2
DNS Server	192.168.15.1
Network Activity	In: 0B , Out: 0B

**All in One System Rescue Toolkit**

## **Free Software Summary:**

Free software protects your freedom!

So, get involved:

- Use free software
- Write code for projects if you know how
- Donate to projects
- Promote free software